

Amendments to the Claims

Please amend the claims as follows:

1. (Currently Amended) A blending system, comprising:

a first material supply line;

a second material supply line;

a ~~static~~ mixer fluidly connected downstream of the first and the second material supply lines to provide a blend; and

a process control system comprising a first flow control device positioned on ~~at least one~~ of the first material supply line; ~~and a second flow control device positioned on the second material supply line~~; ~~lines~~; a first sensor positioned on ~~at least one of the first material supply line~~ to provide a first sensor signal; ~~and a second sensor positioned on the second material supply line to provide a second sensor signal~~; ~~lines~~ and a controller ~~comprising logic code~~ to provide a control signal to each of the first and the second flow control device devices based upon a ~~first sensor signal provided by the first sensor~~ the first and second sensor signals.

2. (Cancelled)

3. (Previously presented) The blending system of claim 1, wherein the first sensor is a density sensor.

4-26. (Cancelled)

27. (Currently amended) A method of supplying blended process materials, comprising:

~~supplying~~ providing a ~~first~~ first process material ~~through a first material supply line~~;

~~supplying~~ providing a second process material ~~through a second material supply line~~;

blending the first and the second process materials ~~in a static mixer fluidly connected downstream of the first and the second material supply lines~~ to produce a blend; and

sensing a first parameter of the first material to provide a first sensor signal; and

sensing a second parameter of the second material to provide a second sensor signal;
regulating the supply of ~~one of each of the first and second process materials based upon the first and second sensor signals the second process materials with a first valve positioned on one of the first and the second material supply lines based upon a sensor signal provided by a sensor positioned on at least one of the first and the second material supply lines.~~

28-39. (Cancelled)

40. (New) The blending system of claim 1, wherein the controller provides a substantially constant volumetric flow of blend and a substantially constant composition of blend.

41. (New) The blending system of claim 1, wherein the mixer is a static mixer.

42. (New) The blending system of any of claims 1 or 3, wherein the second sensor is a density sensor.

43. (New) The blending system of claim 1, further comprising:

a third material supply line;

wherein the process control system further includes:

a third flow control device positioned on the third material supply line fluidly connected upstream of the mixer; and

a third sensor positioned on the third material supply line;

wherein the control signal provided to the first flow control device is further based upon the third sensor signal, and the control signal provided to the second flow control device is further based upon the third sensor signal, and the controller further provides a control signal to the third flow control device based upon the first, second, and third sensor signals.

44. (New) The method of supplying blended process materials of claim 27, further comprising providing a substantially constant flow rate of the blend and a substantially constant composition of the blend.

45. (New) The method of claim 27, further comprising:

providing a third process material;

blending the first, the second and the third process materials;

sensing a third parameter of the third process material to provide a third sensor signal;

and

regulating the supply of the third process material based upon a third control signal based upon the first, second and third sensor signals;

wherein the first control signal is further based upon the third sensor signal, and the second control signal is further based upon the third sensor signal.

46. (New) A blending system to provide a blend having a determined composition, comprising:

a first material supply line;

a second material supply line;

a mixer fluidly connected downstream of the of the first and the second material supply lines to produce a blend; and

means, responsive to changes in concentration of at least one of the first and second materials, for adjusting the amount of first and second materials while continuously providing a substantially constant volumetric flow rate of blended material having a determined composition.

47. (New) The blending system of claim 46, wherein the mixer is a static mixer.